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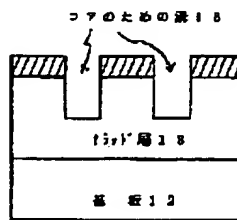
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APPLICANT : HITACHI CABLE LTD;

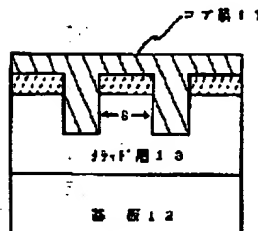
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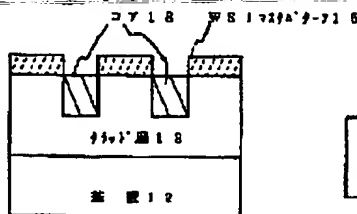
TITLE : PRODUCTION OF QUARTZ-GLASS WAVEGUIDE



(a) フライエッチングによるコアのための溝形成



(b) プラズマCVDによるコア層の形成



(c) フライエッチングによるコア形成

ABSTRACT : PROBLEM TO BE SOLVED: To provide a method for producing a quartz-glass waveguide capable of easily imparting a desired characteristic to an optical multiplexer/ demultiplexer as a constituent of the light filter, light switch, dispersion compensating circuit, etc.

SOLUTION: A WSi mask pattern 15 is formed on the low-refractive-index clad layer 13 formed on an SiO₂ or Si substrate 12 to cut a couple of grooves 16 for a core, the grooves 16 are cut in the clad layer 13 by the use of the pattern, a desired high-refractive-index core 18 is formed in the groove 16 in accordance with the range S between the grooves.

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